

Title (en)
SEAL WITH COATING AND METHOD OF FABRICATING

Title (de)
DICHTUNG MIT BESCHICHTUNG UND HERSTELLUNGSVERFAHREN

Title (fr)
JOINT D'ÉTANCHÉITÉ AVEC REVÊTEMENT ET PROCÉDÉ DE FABRICATION

Publication
EP 4361400 A1 20240501 (EN)

Application
EP 23205044 A 20231020

Priority
US 202263420868 P 20221031

Abstract (en)
A sealing assembly includes a first component (102), a second component (104), and a seal (100) sealing between the first component (102) and the second component (104). The seal (100) includes a coating (200). A thickness (T_{seal}) of the seal (100) is less than about twice the thickness (T) of the coating (200). A method of fabricating a ceramic matrix composite seal (100) is also disclosed.

IPC 8 full level
F01D 5/28 (2006.01); **C04B 41/52** (2006.01); **C04B 41/87** (2006.01); **C04B 41/89** (2006.01); **F01D 11/08** (2006.01); **F01D 25/00** (2006.01)

CPC (source: EP US)
C04B 41/009 (2013.01 - EP); **C04B 41/5024** (2013.01 - EP); **C04B 41/52** (2013.01 - EP); **C04B 41/53** (2013.01 - EP); **C04B 41/89** (2013.01 - EP); **C04B 41/91** (2013.01 - EP); **F01D 5/282** (2013.01 - EP); **F01D 5/284** (2013.01 - EP); **F01D 5/288** (2013.01 - EP); **F01D 11/08** (2013.01 - EP); **F01D 25/005** (2013.01 - EP); **F16J 15/328** (2013.01 - US); **F16J 15/3284** (2013.01 - US); **C04B 2111/00982** (2013.01 - EP); **F05D 2230/90** (2013.01 - EP); **F05D 2240/11** (2013.01 - EP); **F05D 2300/6033** (2013.01 - EP); **F05D 2300/611** (2013.01 - EP)

C-Set (source: EP)
1. **C04B 41/009 + C04B 35/80**
2. **C04B 41/52 + C04B 41/5096**
3. **C04B 41/52 + C04B 41/5024 + C04B 41/53**
4. **C04B 41/52 + C04B 41/522 + C04B 41/5042 + C04B 41/53**
5. **C04B 41/52 + C04B 41/522 + C04B 41/5059 + C04B 41/53**
6. **C04B 41/52 + C04B 41/522 + C04B 41/5045 + C04B 41/53**
7. **C04B 41/52 + C04B 41/522 + C04B 41/5033 + C04B 41/53**
8. **C04B 41/52 + C04B 41/522 + C04B 41/5041 + C04B 41/53**

Citation (search report)
• [XII] US 2019119803 A1 20190425 - TANG XIA [US], et al
• [XII] US 2020256200 A1 20200813 - DING ZHONGFEN [US], et al
• [A] US 2021189904 A1 20210624 - KRACUM MICHAEL R [US], et al
• [A] US 2018252111 A1 20180906 - OPALKA SUSANNE M [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4361400 A1 20240501; US 2024141997 A1 20240502

DOCDB simple family (application)
EP 23205044 A 20231020; US 202318497381 A 20231030